OPERATION AND PARTS MANUAL

STOW

A DIVISION OF MULTIQUIP INC.

COLLOMIX
Hand Mixers
CX100HF
CX100HFE
CX300HF
CX400HFE
CX600HF
CX600HFE

Revision #1(11/07/07)

STOW
A DIVISION OF MULTIQUIP INC.

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⚠ WARNING

SILICOSIS WARNING

Grinding/cutting/drilling of masonry, concrete, metal and other materials with silica in their composition may give off dust or mists containing crystalline silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer. When cutting such materials, always follow the respiratory precautions mentioned above.

⚠ WARNING

RESPIRATORY HAZARDS

Grinding/cutting/drilling of masonry, concrete, metal and other materials can generate dust, mists and fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproductive harm. If you are unfamiliar with the risks associated with the particular process and/or material being cut or the composition of the tool being used, review the material safety data sheet and/or consult your employer, the material manufacturer/supplier, governmental agencies such as OSHA and NIOSH and other sources on hazardous materials. California and some other authorities, for instance, have published lists of substances known to cause cancer, reproductive toxicity, or other harmful effects.

Control dust, mist and fumes at the source where possible. In this regard use good work practices and follow the recommendations of the manufacturers or suppliers, OSHA/NIOSH, and occupational and trade associations. Water should be used for dust suppression when wet cutting is feasible. When the hazards from inhalation of dust, mists and fumes cannot be eliminated, the operator and any bystanders should always wear a respirator approved by NIOSH/MSHA for the materials being used.

STOW CX-HF SERIES HAND MIXERS

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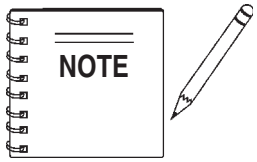

Specification and part number are subject to change without notice.

When ordering parts, please supply the following information:

- ❒ **Dealer account number**
- ❒ **Dealer name and address**
- ❒ **Shipping address (if different than billing address)**
- ❒ **Return fax number**
- ❒ **Applicable model number**
- ❒ **Quantity, part number and description of each part**
- ❒ **Specify preferred method of shipment:**
  - ✓ FedEx or UPS Ground
  - ✓ FedEx or UPS Second Day or Third Day
  - ✓ FedEx or UPS Next Day
  - ✓ Federal Express Priority One
  - ✓ DHL
  - ✓ Truck

Note: Unless otherwise indicated by customer, all orders are treated as "Standard Orders", and will ship within 24 hours. We will make every effort to ship "Air Shipments" the same day that the order is received, if prior to 2PM west coast time. "Stock Orders" must be so noted on fax or web forms.

Here's how to get help...

Please have the model and serial number on hand when calling.

Parts Department
800-427-1244 — Fax: 800-672-7877
310-537-3700 — Fax: 310-637-3284

Service Department
800-478-1244 — Fax: 310-537-4259
310-537-3700

Technical Assistance
800-478-1244 — Fax: 310-631-5032

Warranty Department
800-421-1244, Ext. 279 — Fax: 310-537-1173
310-537-3700, Ext. 279

Sales Department
310-661-4242 — Fax: 310-604-9237
877-289-7869 (877-BUY-STOW)

Place Your Parts Order Via Web or Fax For Even More Savings!

Extra Discounts!

All parts orders which include complete part numbers and are received by our automated web parts order system, or by fax qualify for the following extra discounts:

Ordered via	Standard orders	Stock orders ($750 list and above)
Fax	3%	10%
Web	5%	10%

*Special freight allowances when you order 10 or more line items via Web or Fax!***

FedEx Ground Service ***at no charge for freight***

No other allowances on freight shipped by any other carrier.

NOTE: DISCOUNTS ARE SUBJECT TO CHANGE

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E-MAIL: stow@STOW.com • WWW: stowmfg.com

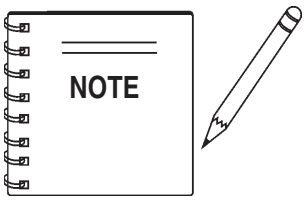
Direct TOLL-FREE access to our Parts Department:

Toll-free nationwide — 800-427-1244

CX-HF SERIES HAND MIXERS — SAFETY MESSAGE ALERT SYMBOLS

FOR YOUR SAFETY AND THE SAFETY OF OTHERS!

Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the Safety Messages and Operating Instructions could result in injury to yourself and others.



This Manual has been developed to provide complete instructions for the safe and efficient operation of the **STOW *CX-HF SERIES HAND MIXERS.***

Before using this mixer, ensure that the operating individual has read and understands all instructions in this manual.

SAFETY MESSAGE ALERT SYMBOLS

The three (3) Safety Messages shown below will inform you about potential hazards that could injure you or others. The Safety Messages specifically address the level of exposure to the operator, and are preceded by one of three words: **DANGER**, **WARNING**, or **CAUTION**.

DANGER

You **WILL** be ***KILLED*** or ***SERIOUSLY*** injured if you **DO NOT** follow directions.

WARNING

You **CAN** be ***KILLED*** or ***SERIOUSLY*** injured if you **DO NOT** follow directions.

CAUTION

You **CAN** be ***INJURED*** if you **DO NOT** follow directions.

Potential hazards associated with the mixer operation will be referenced with Hazard Symbols which appear throughout this manual, and will be referenced in conjunction with Safety Message Alert Symbols.

HAZARD SYMBOLS

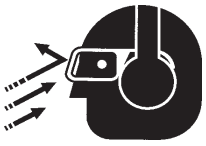
Rotating Parts

NEVER operate equipment with covers or guards removed. Keep fingers, hands, hair and clothing away from all moving parts to prevent injury.

Accidental Starting

ALWAYS place power ON/OFF switch in the **OFF** position when the mixer is not in use.

Sight and Hearing hazard



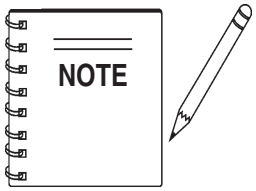
ALWAYS wear approved eye and hearing protection.

Respiratory Hazard

ALWAYS wear approved respiratory protection.

Equipment Damage Messages

Other important messages are provided throughout this manual to help prevent damage to your mixer, other property, or the surrounding environment.



This mixer, other property, or the surrounding environment could be damaged if you do not follow instructions.

CX-HF SERIES HAND MIXERS — RULES FOR SAFE OPERATION

DANGER

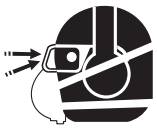
Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be operated by trained and qualified personnel only! This equipment is for industrial use only.

The following safety guidelines should always be used when operating the Multiquip CX-HF Series Hand Mixers.

GENERAL SAFETY

- **DO NOT** operate or service this equipment before reading this entire manual.
- **ALWAYS** be sure the operator is familiar with proper safety precautions and operations techniques before using equipment.
- This equipment should not be operated by persons under 18 years of age.
- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices required by the job. Regulations require that close-fitting clothing be worn.

- **NEVER** operate this equipment when not feeling well due to fatigue, illness or taking medicine.
- **NEVER** operate this equipment under the influence of drugs or alcohol.



- **ALWAYS** wear proper respiratory (mask) hearing and eye protection equipment when operating the mixer. If the sound pressure level exceeds 85 dB (A), use ear protection.
- **NEVER** use accessories, attachments, or replacement parts which are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.
- Manufacturer does not assume responsibility for any accident due to equipment modifications.
- Keep work area clean and well-lit. Keep area around the mixer ***clear of obstructions*** which could cause persons to fall onto ***moving parts***. Dark and cluttered work areas can cause accidents.
- **NEVER** operate the mixer in an ***explosive*** atmosphere such as in the presence of flammable liquids, gases or dust. Sparks from the equipment may ignite dust or fumes.
- **KEEP** bystanders, children, and visitors away while operating a power tool. Distractions can cause loss of control.
- **ALWAYS** store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children.
- **NEVER** leave the mixer unattended. Turn off electric motor when unattended.
- **CAUTION** must always be observed while servicing this mixer. Rotating parts can cause injury if contacted.
- Unauthorized equipment modifications will void all warranties.
- **NEVER** allow extension cord to come into contact with water or fluids.
- Ensure that any extension cable is protected against damage and not liable to be tripped over or trapped underneath the mixer.
- **DO NOT** allow extension cord to come into contact with water or fluids.
- Mixer must be used only for its intended purpose.
- This mixer is not suitable for the mixing of ***flammable*** or ***explosive*** substances.
- **ALWAYS** ensure mixer is on level ground before mixing.
- **ALWAYS** disconnect AC power plug from power source before making adjustments, changing accessories, moving or storing the mixer.
- If mixer is equipped with an electric motor, operate electric motor only at the specified voltage indicated on the nameplate.
- Make sure the ***OFF/ON*** power switch on the electric motor is ***always*** in the ***OFF*** position before inserting the mixer's power plug into an AC receptacle (electric model only).
- Servicing of equipment must be performed only by qualified repair personnel.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult to read.
- **ALWAYS** check the machine for loosened threads or bolts before starting.

- **DO NOT** spray water onto electric motor. Do not expose equipment to rain or wet conditions. Water entering the equipment will increase the risk of electric shock.
- Double-insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit on a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way. Double insulation eliminates the need for the three-wire grounder power cord and grounded power supply system.
- **AVOID** body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.
- When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electric shock.
- Remove adjusting keys or wrenches before turning the tool on. A wrench or a key that is left attached to a rotating part of the equipment may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the equipment in unexpected situations.
- Do not force any tool. Use correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
- Do not use the equipment if switch does not turn on or off. Any equipment that cannot be controlled with a switch is dangerous and must be repaired.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the operation of the equipment. If damaged, have the equipment serviced before using. Poorly-maintained equipment can cause accidents.
- Do not use the equipment in an environment with potentially explosive atmosphere. Do not mix any solvents or solvent-containing substances with a flash point of below 69° F (21° C).
- Make sure that the current voltage indicated on the rating plate corresponds to the main power supply.
- Position the cord clear of the rotating mixing paddle. Do not wrap the cord around arm, wrist or other body parts. This can cause injury.
- Start up or run down the machine in the mixing container only. Make sure that the mixing container is placed in a firm and secure position.

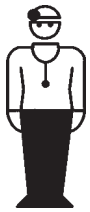
Maintenance Safety

- **NEVER** lubricate components or attempt service on a running machine.
- **ALWAYS** allow the machine a proper amount of time to cool before servicing.
- Keep the machinery in proper running condition.
- Fix damage to the machine immediately and always replace broken parts, or missing decals.
- Dispose of hazardous waste properly.
- **DO NOT** use food or plastic containers to dispose of hazardous waste.

Emergencies

- **ALWAYS** know the location of the nearest ***fire extinguisher*** and **first aid kit.**

- In emergencies ***always*** know the location of the nearest phone or ***keep a phone on the job site***. Also know the phone numbers of the nearest ***ambulance***, ***doctor*** and ***fire department***. This information will be invaluable in the case of an emergency.



CX-HF SERIES HAND MIXERS — SYMBOLS USED

Some of the following symbols may be used on this equipment. Familiarize yourself with them and their meaning. Proper interpretation of these symbols will allow you to operate the equipment better and safer.

Symbols	Name	Designation/Explanation
A	Amperes	Current
V	Volts	Voltage (potential)
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
kg	Kilograms	Weight
min	Minutes	Time
S	Seconds	Time
∅	Diameter	Size of mixer paddle
n_o	No load speed	Rotational speed, at no load
…/min	Revolutions or reciprocation per minute	Revolutions per minute
←	Arrow	Action in the direction of the arrow
~	Alternating current	Type or characteristic of current
⧈	Class II protection	Designates double insulated constrution tools
⏚	Earthing terminal	Grounding terminal
⚠	Warning symbol	Alerts users to warning messages

INTERTEK ETL CM LISTED C US

This symbol designates that this tool is listed to UL standards and Canadian standards by ETL.

Table 1. CX-HF Series Specifications

Model	CX100HF/CX100HFE	CX300HF	CX400HFE	CX600HF/CX600HFE
Voltage	110-120 V / 230 V	110-120 V	230 V	110-120 V/230V
Watts	800/1,000	800	1,400	1,200/1,600
HP	1.1	1.1	1.8	1.7/2.2
Amps	7.2/4.4	7.2	6.0	10.4/7.1
Gears	1	2	2	2
RPM Under Load Gear 1	0-790/0-670	0-470	0-500	0-490/0-420
RPM Under Load Gear 2	N/A	0-890	0-850	0-620/0-630
Recommended Mixing Tool Diameter	4.75 inches (120 mm)	4.75 inches (120 mm)	5.5 inches (140 mm)	5.5 inches (140 mm)
Spindle Neck Diameter	2 inches (51 mm)	2 inches (51 mm)	2 inches (51 mm)	2 inches (51 mm)
Sound Pressure Level	84 dB(A)	84 dB(A)	89 dB(A)	89 dB(A)
Noise Emission Level	97 dB(A)	97 dB(A)	102 dB(A)	102 dB(A)
Hand-Arm Vibration	< 8.2 ft^2 (0.76 m^2)	< 8.2 ft^2 (0.76 m^2)	< 8.2 ft^2 (0.76 m^2)	< 8.2 ft^2 (0.76 m^2)
Electrical Protection	Double-Insulated	Double-Insulated	Double-Insulated	Double-Insulated
Mixing Capacity	1-10 gallons (4-38 liters)	1-25 gallons (4-95 liters)	1-25 gallons (4-95 liters)	1-25 gallons (4-95 liters)
Weight	17 lb (7.7 kg)	21 lb (9.5 kg)	21 lb (9.5 kg)	21 lb (9.5 kg)

Application

The Stow CX-HF Series Hand Mixers are designed for mixing liquid and power-based products such as paints, mortar, adhesives, plaster, and similar substances used in the building industry and building-related trades.

The right mixing tool should be selected depending on the consistency of the material and the quantity to be mixed.

If used properly, the hand mixer will provide years of safe and reliable service.

The CX-HF Series mixer is not to be used for the processing or preparation of food or similar products. The machine is also not suitable for mixing materials containing graphite powder, hydrochloric solutions or liquid manure. Mixing such materials can damage or destroy machine.

Electrical

Make sure that the power being supplied to the motor corresponds to the voltage rating label on the motor. Supplying the wrong voltage to the electric motor will cause severe electrical damage to the motor.

Extension Cables

The extension cable should be a 3-wire configuration that includes a ground wire that conforms to UL code. Choose the correct size of an extension cord as shown in Table 2. Remember ***distance*** affects the wire size of the extension cable.

Ensure that the extension cable is carefully laid out avoiding ***wet areas***, ***sharp edges*** and locations where vehicles might run over it.

Unroll the extension cable fully or it will overheat and could catch fire. Make sure that all extension cable connections are dry and safe. Replace any defective or worn-out extension cable immediately.

TABLE 2. Extension Cord Sizes

Ampere Rating Range	Volts	Length of Cord in Feet					
	115V	25 Ft.	50 Ft.	100 Ft.	150 Ft.	200 Ft.	250 Ft.
	230V	50 Ft.	100 Ft.	200 Ft.	300 Ft.	400 Ft.	500 Ft.
0 - 2		18	18	18	16	16	14
2 - 3		18	18	16	14	14	12
3 - 4		18	18	16	14	12	12
4 - 5		18	18	14	12	12	10
5 - 6		18	16	14	12	10	10
6 - 8		18	16	12	10	10	8
8 - 10		18	14	12	10	8	8
10 - 12		16	14	10	8	8	6
12 - 14		16	12	10	8	6	6
14 - 16		16	12	10	8	6	6
16 - 18		14	12	8	8	6	4
18 - 20		14	12	8	6	6	4

Paddles

The CX-HF Series Hand Mixers can use different paddles depending on the application it will be used for. See table below for the available paddles.

Table 3. Paddles for CX-HF Series Mixers

Model	Diameter	Length	Chucksize	Mixes	Mixer Used With
FM Series — *Low Viscous Materials, Wallpaints, Lacquers* (Material Flow: from top to the bottom)					
FM120HF	4 3/4"	23 1/4"	3/4" and HEXAFIX®	65 lb	CX100HF
LX Series — *Epoxy Resins, Adhesives & all liquid materials* (Material Flow: from top to the bottom)					
LX120HF	4 3/4"	23 1/4"	3/4" and HEXAFIX®	40-65 lb	CX100HF
WK Series — *Sticky, high viscous materials; adhesives, ready-mix plasters, fillers* (Material Flow: from bottom to the top)					
WK120HF	4 3/4"	23 1/4"	3/4" and HEXAFIX®,	20-30 lb	CX100HF
WK140HF	1/2"	23 1/4"	3/4"and HEXAFIX®,	30-65 lb	CX300HF
MK Series — *for high viscosity materials; mortars, epoxy-material* (Material Flow: from bottom to the top)					
MK120HF	4 3/4"	23 1/4"	3/4" and HEXAFIX®	30-55 lb	CX100HF
MK140HF	5 1/2"	23 1/4"	3/4" and HEXAFIX®	50-90 lb	CX300HF
MK160HF	6 1/4"	23 1/4"	3/4" and HEXAFIX®	65-130 lb	CX600HF
MKN Series — *for low viscosity materials; paints, materials w/ith flaky-fibrous & gypsum based components* (Material Flow: from top to the bottom)					
MKN120HF	4 3/4"	23 1/4"	3/4" and HEXAFIX®	30-55 lb	CX300HF
MKN140HF	5 1/2"	23 1/4"	3/4" and HEXAFIX®	50-90 lb	CX600HF

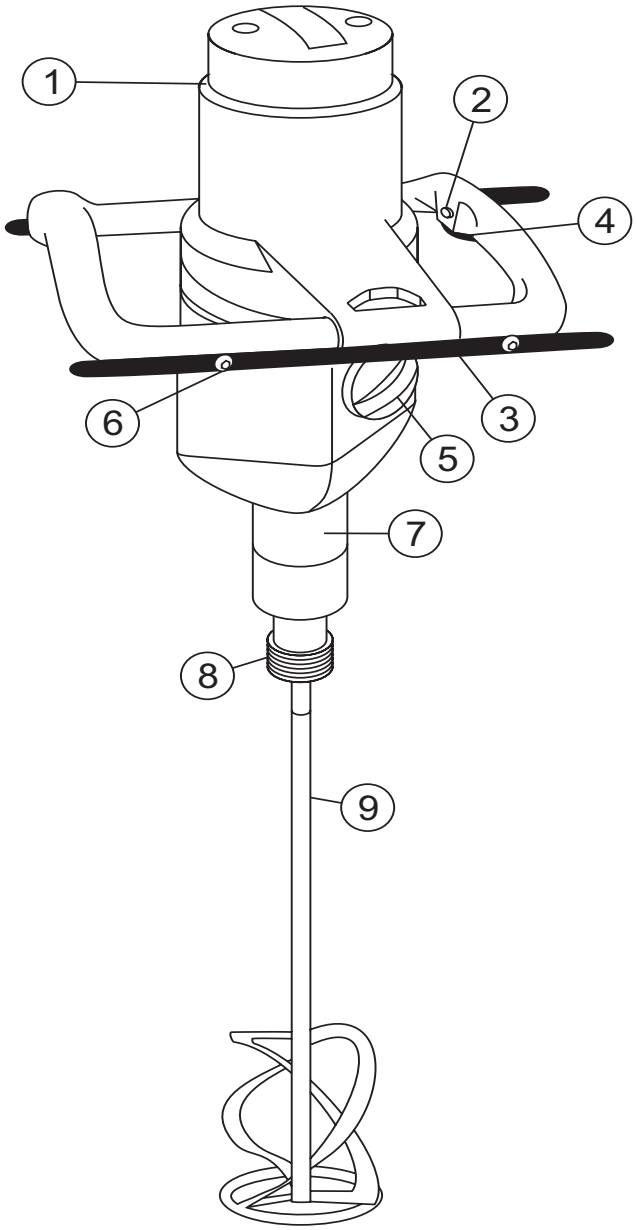


Figure 1. Mixer Major Components

Refer to Figure 1 for the location of the following mixer components.

1. **Ventilation Slits** — These openings allow ventilation to the unit to prevent overheating.
2. **Safety Lock-off Button** — Prevents the unit from being operated accidentally.
3. **Protection Frame** — Protects the machine casing from dirt and breakage.
4. **ON/OFF Switch with Speed Control** — Turns the power on and off and regulates the mixing speed.
5. **Gear Selection Lever** — This lever is used to select the gear (slow or fast) at which the unit is operating (not applicable on CX100HF/CX100HFE).
6. **Protection Frame Fastening Screws** — Holds the protection frame securely in place.
7. **Machine Neck** — The mixing tool is attached to the machine neck.
8. **HEXAFIX® Quick Action Coupling** — This connector attaches the mixing tool to the machine neck.
9. **Mixing Tool** — This tool is used to mix chemical building products.

Assembly

Before using the hand mixer, the following steps need to be performed.

1. Insert the mixing tools (see Table 3 for the different mixing tools/paddles available) into the HEXAFIX® coupling as far as necessary to lock the tools in place, automatically (see Figure 2).

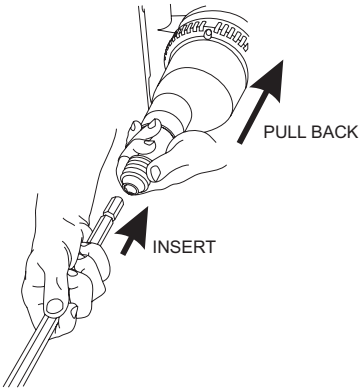


Figure 2. Inserting Mixing Tools

Electric Connections

CAUTION

DO NOT attempt to operate the mixer until the Safety, General Information and Set-Up sections have been read and understood.

CAUTION

Before plugging the power cable, check and make sure that the ON/OFF switch operates properly and returns to the OFF position when released.

1. Connect the hand mixer power cable to a 110V or 230V, 50/60 Hz power source, depending on the unit you have. Make sure you conform to the specifications on the nameplate of the mixer.
2. A 120V/230V power supply can also be used. Make sure that the power supply conforms to the specifications on the nameplate of the mixer. Voltage decrease of more than 10% will cause loss of power and overheating.
3. Use an extension cord (see Table 2) of adequate current carrying capacity. ***NEVER*** use a ***worn*** or ***frayed*** extension cord. Insert the electric motor's power plug into one end of the extension cord.

DANGER

NEVER touch the power cord (Figure 3) with ***wet hands*** or while ***standing in water*** when it is connected to a power source. The possibility exists of electrical shock (electrocution) even death. ***NEVER*** spray water directly on the electric motor.

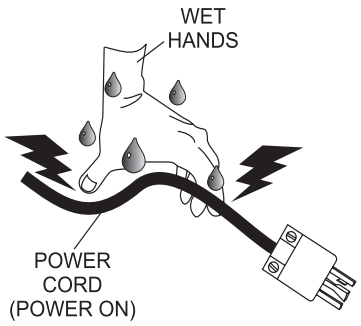


Figure 3. Extension Cord (Wet Hands)

NOTE

To prevent personnel from tripping over the extension cord, position the extension cord so that it lays flat and is not curled.

CAUTION

ALWAYS hold the machine with both hands while working.

1. To start , press the starting lockout button then press the ON/OFF switch (Figure 4). The integrated electronic controls will start the machine in a controlled speed.

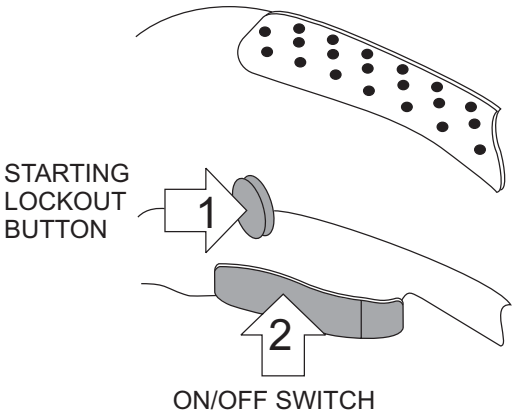


Figure 4. ON/OFF Switch

2. To make the motor run faster, apply more pressure to the ON/OFF switch.
3. To change the maximum speed, first make sure that the power is off then turn the gear selection lever 180° (Figure 5). First gear is slow and second gear is fast.

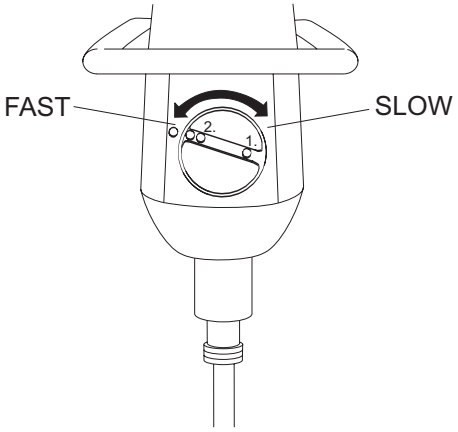


Figure 5. Gear Selection Lever

4. When submerging the mixing tool in the mixing material or when lifting out the mixing tool, always reduce the speed. When the mixing tool is fully submerged, increase the speed again to ensure that the motor is adequately cooled.
5. During mixing, guide the mixer around the mixing container (Figure 6). Continue mixing until all of the material is completely mixed.

Figure 6. Mixing the Material

6. To stop the mixer, release the ON/OFF switch.
7. Always clean the mixing tool after every use.

⚠ CAUTION

ALWAYS disconnect the mixer from the power supply before cleaning, changing the mixing paddle or performing any maintenance.

⚠ CAUTION

To assure product safety and reliability, repairs, maintenance, and adjustments should be performed by an authorized service center or qualified technician to prevent any misplaced wires and components that could cause serious hazards.

1. Clean the machine and mixing tool after every use.
2. Keep the quick-action coupling clean and free of dust. Apply grease to the hexagon mount regularly.
3. Keep the ventilation slits clean and free of foreign matter so that machine can be properly cooled.
4. Replace the carbon brushes when worn. The machine is equipped with self-deactivating carbon brushes. The machine will shut itself down when a certain level of wear is reached, indicating that carbon brushes should be replaced.
5. Clean and lubricate gear care yearly or whenever servicing requires that the gear case to be removed.

Mixer Storage

For storage of the mixer for over 30 days, the following is recommended:

- Clean the mixer and mixing tool.
- Cover the mixer and place it a clean dry area, that is protected from harsh elements.

EXPLANATION OF CODE IN REMARKS COLUMN

The following section explains the different symbols and remarks used in the Parts section of this manual. Use the help numbers found on the back page of the manual if there are any questions.

The contents and part numbers listed in the parts section are subject to change ***without notice***. Multiquip does not guarantee the availability of the parts listed.

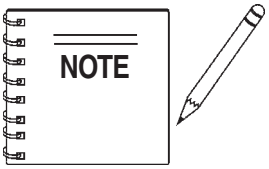
Sample Parts List:

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	12345	BOLT	1	INCLUDES ITEMS W/*
2*		WASHER, 1/4 IN.		NOT SOLD SEPARATELY
2*	12347	WASHER, 3/8 IN.	1	MQ-45T ONLY
3	12348	HOSE	A/R	MAKE LOCALLY
4	12349	BEARING	1	S/N 2345B AND ABOVE

NO. Column

Unique Symbols - All items with same unique symbol (*, #, +, %, or >) in the number column belong to the same assembly or kit, which is indicated by a note in the "Remarks" column.

Duplicate Item Numbers - Duplicate numbers indicate multiple part numbers are in effect for the same general item, such as different size saw blade guards in use or a part that has been updated on newer versions of the same machine.



When ordering a part that has more than one item number listed, check the remarks column for help in determining the proper part to order.

PART NO. Column

Numbers Used - Part numbers can be indicated by a number, a blank entry, or TBD.

TBD (To Be Determined) is generally used to show a part that has not been assigned a formal part number at time of publication.

A blank entry generally indicates that the item is not sold separately or is not sold by Multiquip. Other entries will be clarified in the "Remarks" Column.

QTY. Column

Numbers Used - Item quantity can be indicated by a number, a blank entry, or A/R.

A/R (As Required) is generally used for hoses or other parts that are sold in bulk and cut to length.

A blank entry generally indicates that the item is not sold separately. Other entries will be clarified in the "Remarks" Column.

REMARKS Column

Some of the most common notes found in the "Remarks" Column are listed below. Other additional notes needed to describe the item can also be shown.

Assembly/Kit - All items on the parts list with the same unique symbol will be included when this item is purchased.

Indicated by:

"INCLUDES ITEMS W/(unique symbol)"

Serial Number Break - Used to list an effective serial number range where a particular part is used.

Indicated by:

"S/N XXXXX AND BELOW"
"S/N XXXX AND ABOVE"
"S/N XXXX TO S/N XXX"

Specific Model Number Use - Indicates that the part is used only with the specific model number or model number variant listed. It can also be used to show a part is NOT used on a specific model or model number variant.

Indicated by:

"XXXXX ONLY"
"NOT USED ON XXXX"

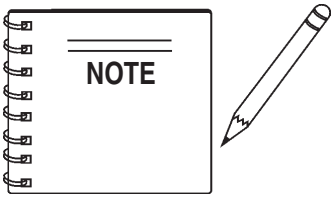
"Make/Obtain Locally" - Indicates that the part can be purchased at any hardware shop or made out of available items. Examples include battery cables, shims, and certain washers and nuts.

"Not Sold Separately" - Indicates that an item cannot be purchased as a separate item and is either part of an assembly/kit that can be purchased, or is not available for sale through Multiquip.

CX-HF SERIES HAND MIXERS — SUGGESTED SPARE PARTS

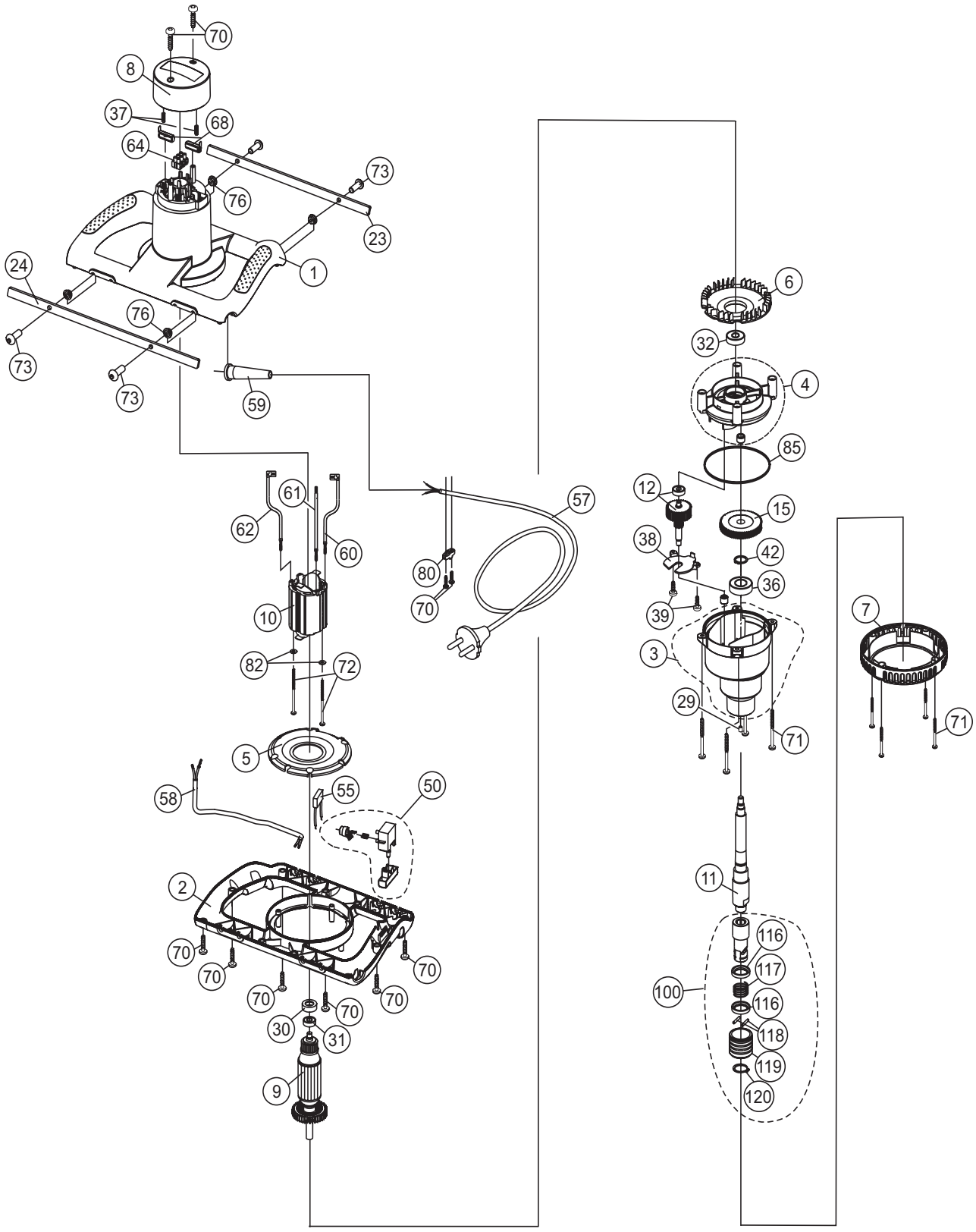
CX100HF/CX100HFE/CX300HF/CX300HFE/CX400HFE/CX600HF/CX600HFE (1 TO 4 UNITS)

QTY.	P/N	DESCRIPTION
2	CM20509	SPRING FOR BRUSH ASSY (CX100, CX300, CX400)
1	CM20567	BRUSH SET (CX100, CX300, CX400)
2	CM20569	BRUSH HOLDER (CX600)
1	CM20566	BRUSH SET (CX600)
1	CM20593	SWITCH ASSY (CX100, CX300)
1	CM20703	SWITCH ASSY (CX400)
1	CM20597	SWITCH ASSY (CX600)



Part numbers on this Suggested Spare Parts List may supercede/ replace the P/N's shown in the test pages of this manual.

MIXER ASSY.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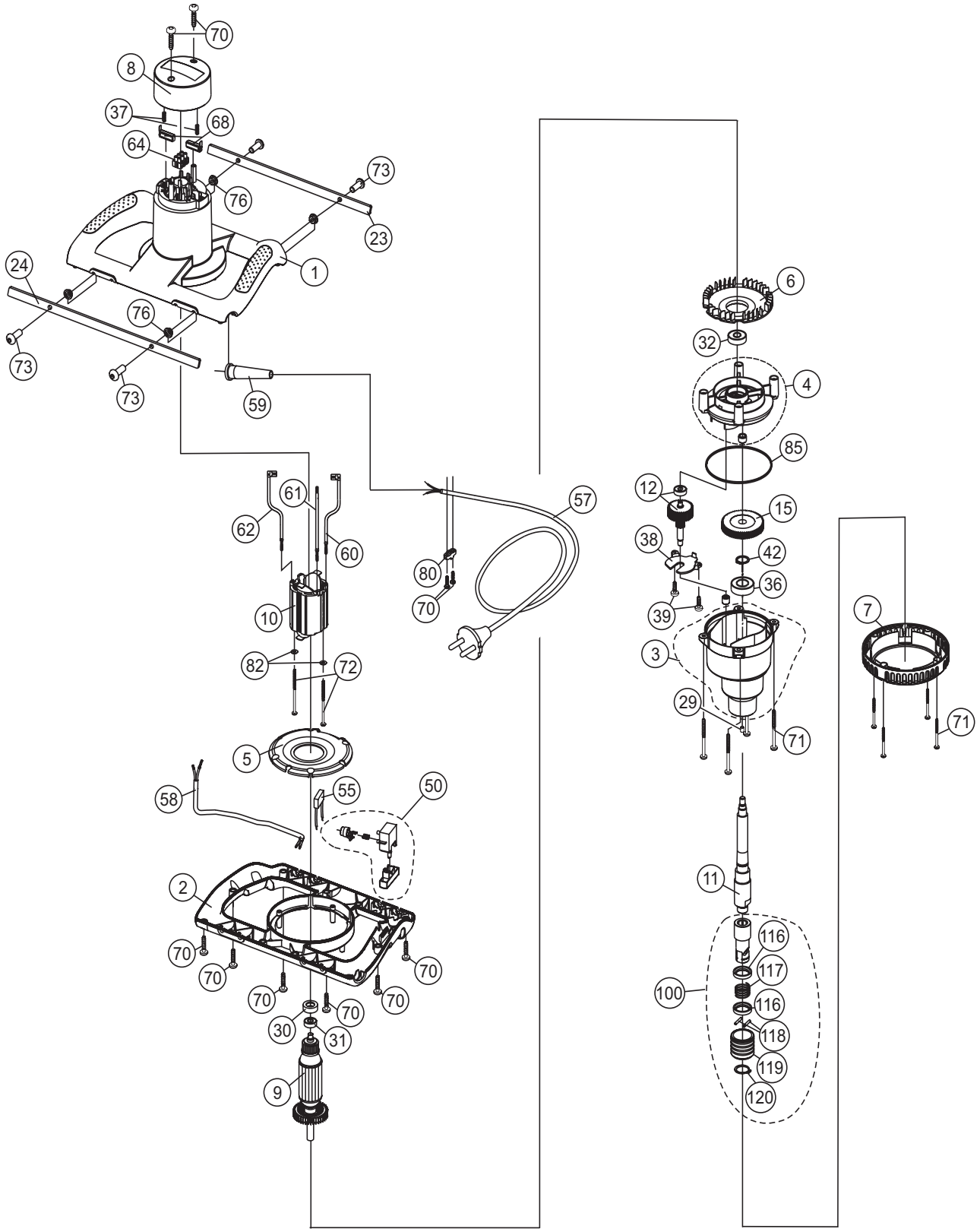
MIXER ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS
1	CM20530	MOTOR HOUSING TOP	1	
2	CM20531	MOTOR HOUSING BOTTOM	1	
3	CM20560	GEAR HOUSING ASSY	1	
4	CM20552	PLATE ASSY	1	
5	CM20524	BAFFLE PLATE	1	
6	CM20525	RECTIFIER	1	
7	CM20527	AIR OUTLET	1	
8	CM20601	COVER, TOP	1	
9	CM20559	ARMATURE, OEM10 230V	1	..... CX100HFE ONLY
9	CM20591	ARMATURE, OEM10 110V	1	..... CX100HF ONLY
10	CM20556	FIELD COIL, OEM10/20 230V	1	..... CX100HFE ONLY
10	CM20592	FIELD COIL, OEM10/20 110V	1	..... CX100HF ONLY
11	CM20707	SPINDLE	1	
12	CM20548	MIDDLE SHAFT	1	
15	CM20502	GEAR	1	
23	CM20687	FRAME PROTECTION FRONT	1	
24	CM20686	FRAME PROTECTION REAR	1	
29	CM25022	SLEEVE	1	
30	CM29523	RUBBER SLEEVE	1	
31	CM29522	BALL BEARING 607 2Z	1	
32	CM25055	BALL BEARING 6000 2RS	1	
36	CM24425	BALL BEARING 6003 ZRS	1	
37	CM20509	SPRING FOR BRUSH ASSY	2	
38	CM20608	COVER	1	
39	CM20609	SCREW 4X12	2	

MIXER ASSY.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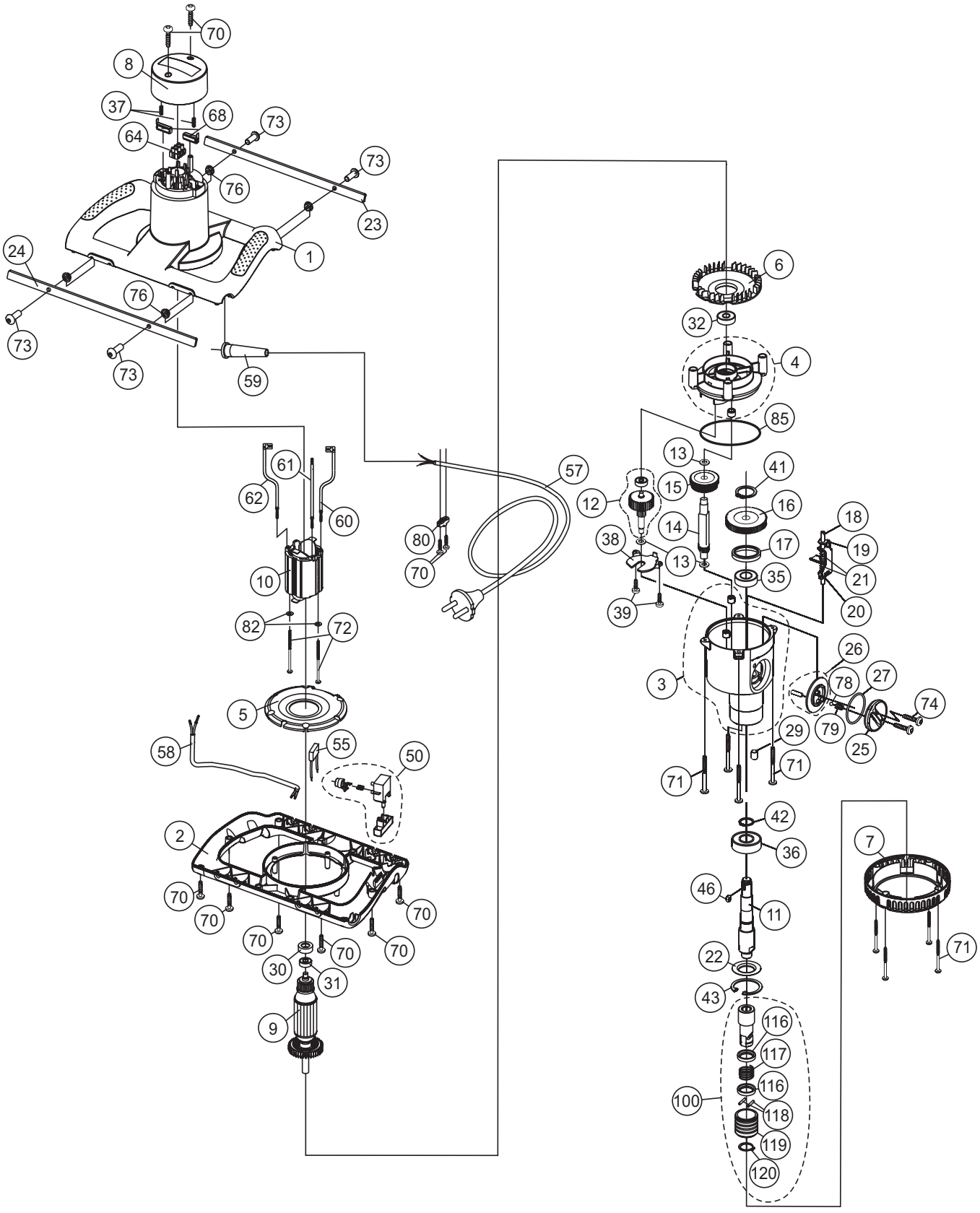
CX100 HAND MIXER — MIXER ASSEMBLY (CONTINUED)

MIXER ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS
42	CM20570	CIRCLIP 17	1	
50	CM20565	ACCELERATION SWITCH 230V	1	CX100HFE ONLY
50	CM20593	ACCELERATION SWITCH 110V	1	CX100HF ONLY
55	CM29534	CAPACITOR	1	
57	CM23557	MAIN CABLE 230V WITH EU-PLUG	1	CX100HFE ONLY
57	CM27030	MAIN CABLE 230V WITH CH-PLUG	1	CX100HFE ONLY
57	CM27053	MAIN CABLE 230V WITH UK-PLUG	1	CX100HFE ONLY
57	CM27035	MAIN CABLE 110V WITH UK-PLUG	1	CX100HF ONLY
57	CM27054	MAIN CABLE 110V WITH US-PLUG	1	CX100HF ONLY
58	CM20588	CABLE SWITCH	1	
59	CM23556	CORD GUARD	1	
60	CM20584	WIRE RED	1	
61	CM20583	WIRE BLUE	1	
62	CM20584	WIRE RED	1	
64	CM20579	TERMINAL BLOCK	1	
68	CM20567	BRUSH SET	2	
70	CM25062	SCREW 4X15	14	
71	CM29563	SCREW 4X45/20	8	
72	CM20574	SCREW 4X70/30	2	
73	CM20575	SCREW M6X20	4	
76	CM20576	NUT M6	4	
80	CM23555	CORD CLAMP	1	
82	CM27011	WASHER 4.3	1	
85	CM29564	SEALING	1	
100	CM20666	HEXAFIX RIGHT - II	1	INCLUDES ITEMS W/ #
116#	CM20667	RING HEXAFIX	2	
117#	CM20668	SPRING FOR HEXAFIX	1	
118#	CM20669	PIN FOR HEXAFIX	1	
119#	CM20670	SLEEVE HEXAFIX	1	
120#	CM20571	CIRCLIP 20	1	

MIXER ASSY.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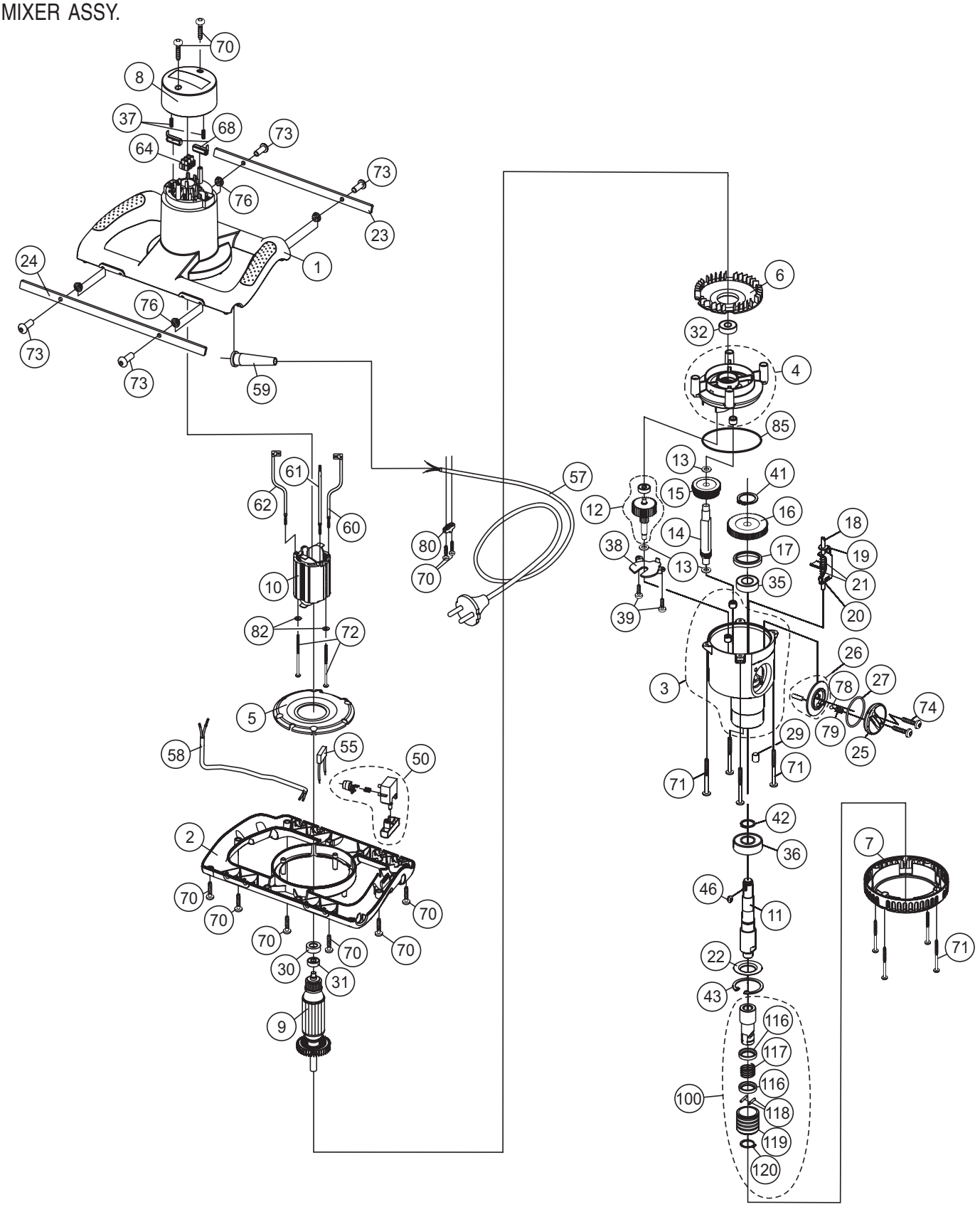
CX300 HAND MIXER — MIXER ASSEMBLY

MIXER ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS
1	CM20530	MOTOR HOUSING TOP	1	
2	CM20531	MOTOR HOUSING BOTTOM	1	
3	CM20705	GEAR HOUSING ASSY	1	
4	CM20553	PLATE ASSY	1	
5	CM20524	BAFFLE PLATE	1	
6	CM20529	RECTIFIER	1	
7	CM20526	AIR OUTLET	1	
8	CM20601	COVER BLACK	1	
9	CM20594	ARMATURE 110V	1	
10	CM20592	FIELD COIL 110V	1	
11	CM20711	SPINDLE	1	
12	CM20547	MIDDLE SHAFT	1	
13	CM20518	WASHER	3	
14	CM20504	MIDDLE SHAFT	1	
15	CM20544	GEAR ASSY	1	
16	CM20501	GEAR	1	
17	CM20506	SLEEVE	1	
18	CM28543	GUIDE	1	
19	CM20511	FORK	1	
20	CM20660	SLIDING PLUG	1	
21	CM20508	SPRING FOR GEAR SHIFTER	1	
22	CM20513	WASHER	1	
23	CM20687	FRAME PROTECTION FRONT	1	
24	CM20686	FRAME PROTECTION REAR	1	
25	CM20528	GEAR KNOB	1	
26	CM20684	GEARING END PLATE	1	
27	CM20581	SEALING	1	
29	CM25022	SLEEVE	1	
30	CM29523	RUBBER SLEEVE	1	
31	CM29522	BALL BEARING 607 2Z	1	
32	CM25055	BALL BEARING 6000 2RS	1	
35	CM23507	BALL BEARING 6002 2RS	1	
36	CM26016	BALL BEARING 6204 2RS	1	
37	CM20509	SPRING, BRUSH ASSY	2	
38	CM20608	COVER	1	
39	CM20609	SCREW 4X12	2	

MIXER ASSY.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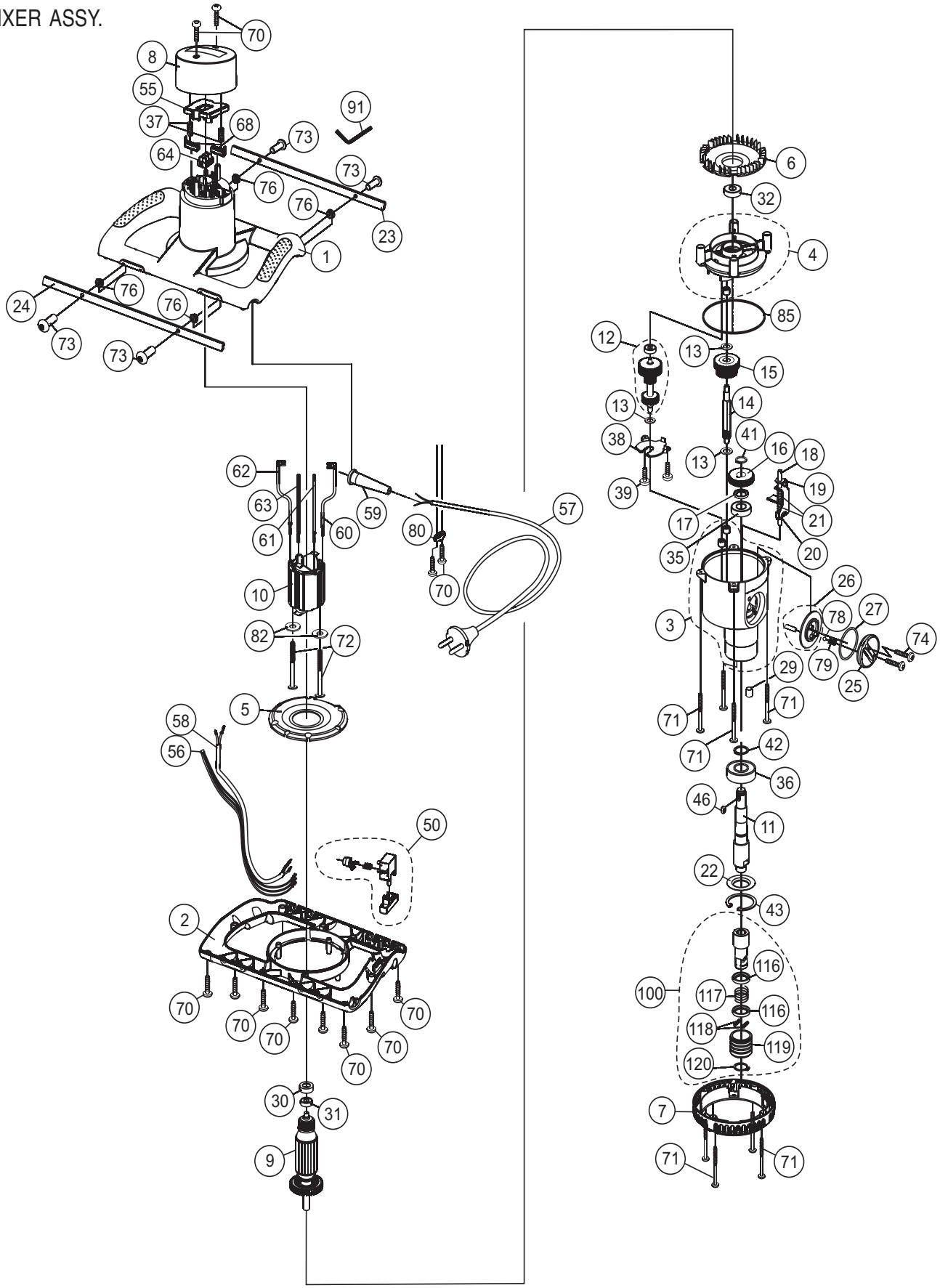
CX300 HAND MIXER — MIXER ASSEMBLY (CONTINUED)

MIXER ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS
41	CM24060	CIRCLIP A15 X1.5	1	
42	CM20571	CIRCLIP 20	1	
43	CM20572	CIRCLIP 47	1	
46	CM28548	PIN 5X5X10	1	
50	CM20593	ACCELERATION SWITCH 110V	1	
55	CM29534	CAPACITOR	1	
57	CM27035	MAIN CABLE 110V WITH UK-PLUG	1	
57	CM27054	MAIN CABLE 110V WITH US-PLUG	1	
58	CM20588	CABLE SWITCH	1	
59	CM23556	CORD GUARD	1	
60	CM20584	WIRE RED	1	
61	CM20583	WIRE BLUE	1	
62	CM20584	WIRE RED	1	
64	CM20579	TERMINAL BLOCK	1	
68	CM20567	BRUSH SET	1	
70	CM25062	SCREW 4X15	14	
71	CM29563	SCREW 4X45/20	8	
72	CM20574	SCREW 4X70/30	2	
73	CM20575	SCREW M6X20	4	
74	CM20577	SCREW 30X12	2	
76	CM20576	NUT M6	4	
78	CM20578	BALL 5 MM	1	
79	CM20507	SPRING FOR GEAR SWITCH	1	
80	CM23555	CORD CLAMP	1	
82	CM27011	WASHER 4.3	2	
85	CM29564	SEALING	1	
100	CM20666	HEXAFIX RIGHT - II	1	.....INCLUDES ITEMS W/ #
116#	CM20667	RING HEXAFIX	2	
117#	CM20668	SPRING for HEXAFIX	1	
118#	CM20669	PIN FOR HEXAFIX	1	
119#	CM20670	SLEEVE HEXAFIX	1	
120#	CM20571	CIRCLIP 20	1	

MIXER ASSY.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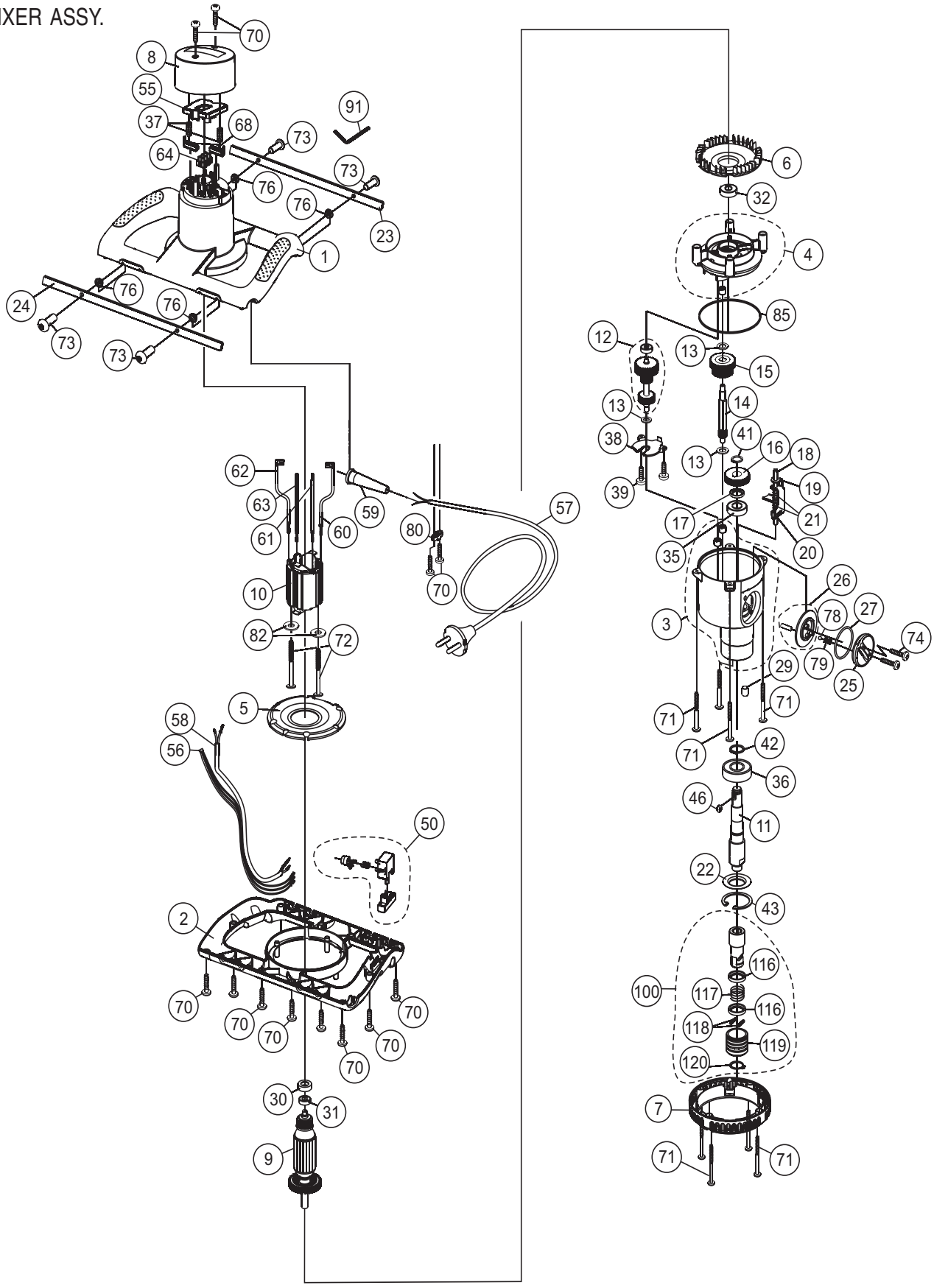
MIXER ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS
1	CM20530	MOTOR HOUSING TOP	1	
2	CM20531	MOTOR HOUSING BOTTOM	1	
3	CM20705	GEAR HOUSING ASSY	1	
4	CM20553	PLATE ASSY	1	
5	CM20524	BAFFLE PLATE	1	
6	CM20529	RECTIFIER	1	
7	CM20526	AIR OUTLET	1	
8	CM20688	COVER	1	
9	CM20715	ARMATURE	1	
10	CM20701	FIELD COIL	1	
11	CM20711	SPINDLE	1	
12	CM20709	MIDDLE SHAFT	1	
13	CM20518	WASHER	3	
14	CM20504	MIDDLE SHAFT	1	
15	CM20708	GEAR ASSY	1	
16	CM20501	GEAR	1	
17	CM20506	SLEEVE	1	
18	CM28543	GUIDE	1	
19	CM20511	FORK	1	
20	CM20660	SLIDING PLUG	1	
21	CM20508	SPRING FOR GEAR SHIFTER	1	
22	CM20513	WASHER	1	
23	CM20687	FRAME PROTECTION FRONT	1	
24	CM20686	FRAME PROTECTION REAR	1	
25	CM20528	GEAR KNOB	1	
26	CM20562	KNOB ASSY	1	
27	CM20581	SEALING	1	
29	CM25022	SLEEVE	1	
30	CM29523	RUBBER SLEEVE	1	
31	CM29522	BALL BEARING 607 2Z	1	
32	CM25055	BALL BEARING 6000 2RS	1	
35	CM23507	BALL BEARING 6002 2RS	1	
36	CM26016	BALL BEARING 6204 2RS	1	
37	CM20509	SPRING FOR BRUSH ASSY	2	
38	CM20608	COVER	1	
39	CM20609	SCREW 4X12	2	

MIXER ASSY.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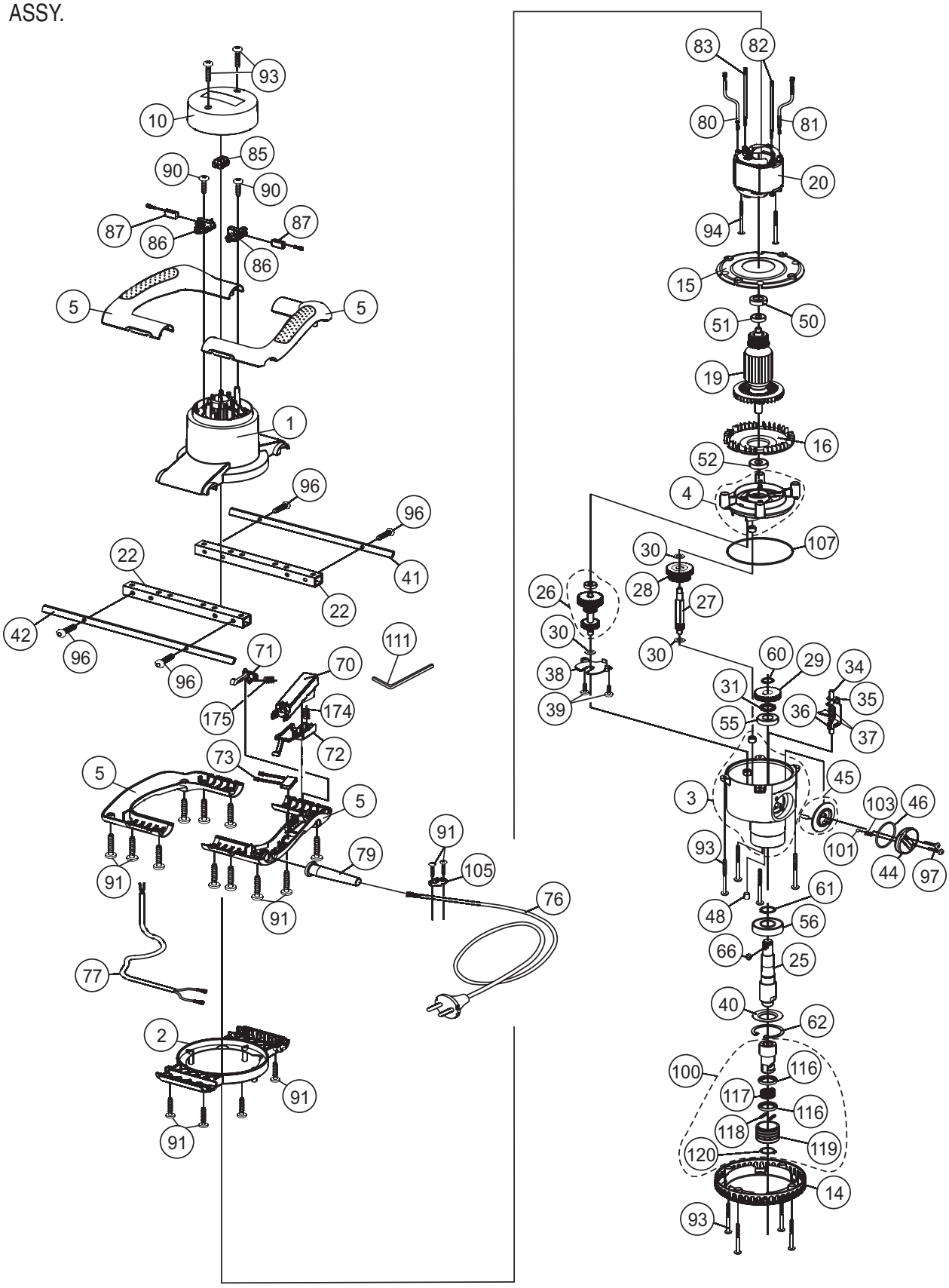
CX400 HAND MIXER — MIXER ASSEMBLY (CONTINUED)

MIXER ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS
41	24060	CIRCLIP A15 X1.5	1	
42	20571	CIRCLIP 20	1	
43	20572	CIRCLIP 47	1	
46	28548	PIN 5X5X10	1	
50	20703	SWITCH ASSY	1	
55	20712	CURRENT LIMITER	1	
56	20689	WIRE	1	
57	23557	MAIN CABLE 230 V WITH EU PLUG	1	
58	20692	WIRE	1	
59	23556	CORD GUARD	1	
60	20585	WIRE RED	1	
61	20583	WIRE BLUE	1	
62	20585	WIRE RED	1	
63	20682	WIRE FIELD	1	
64	20579	TERMINAL BLOCK	1	
68	20567	BRUSH SET	2	
70	25062	SCREW 4X15	14	
71	29563	SCREW 4X45/20	8	
72	20574	SCREW 4X70/30	2	
73	20575	SCREW M6X20	4	
74	20577	SCREW 30X12	2	
76	20576	NUT M6	4	
78	20578	BALL 5 MM	1	
79	20507	SPRING FOR GEAR SWITCH	1	
80	23555	CORD CLAMP	1	
82	27011	WASHER 4,3	2	
85	29564	SEALING	1	
100	20666	HEXAFIX RIGHT - II	1	..... INCLUDES ITEMS W/ #
116#	20667	RING HEXAFIX	2	
117#	20668	SPRING FOR HEXAFIX	1	
118#	20669	PIN FOR HEXAFIX	1	
119#	20670	SLEEVE HEXAFIX	1	
120#	20571	CIRCLIP 20	1	

MIXER ASSY.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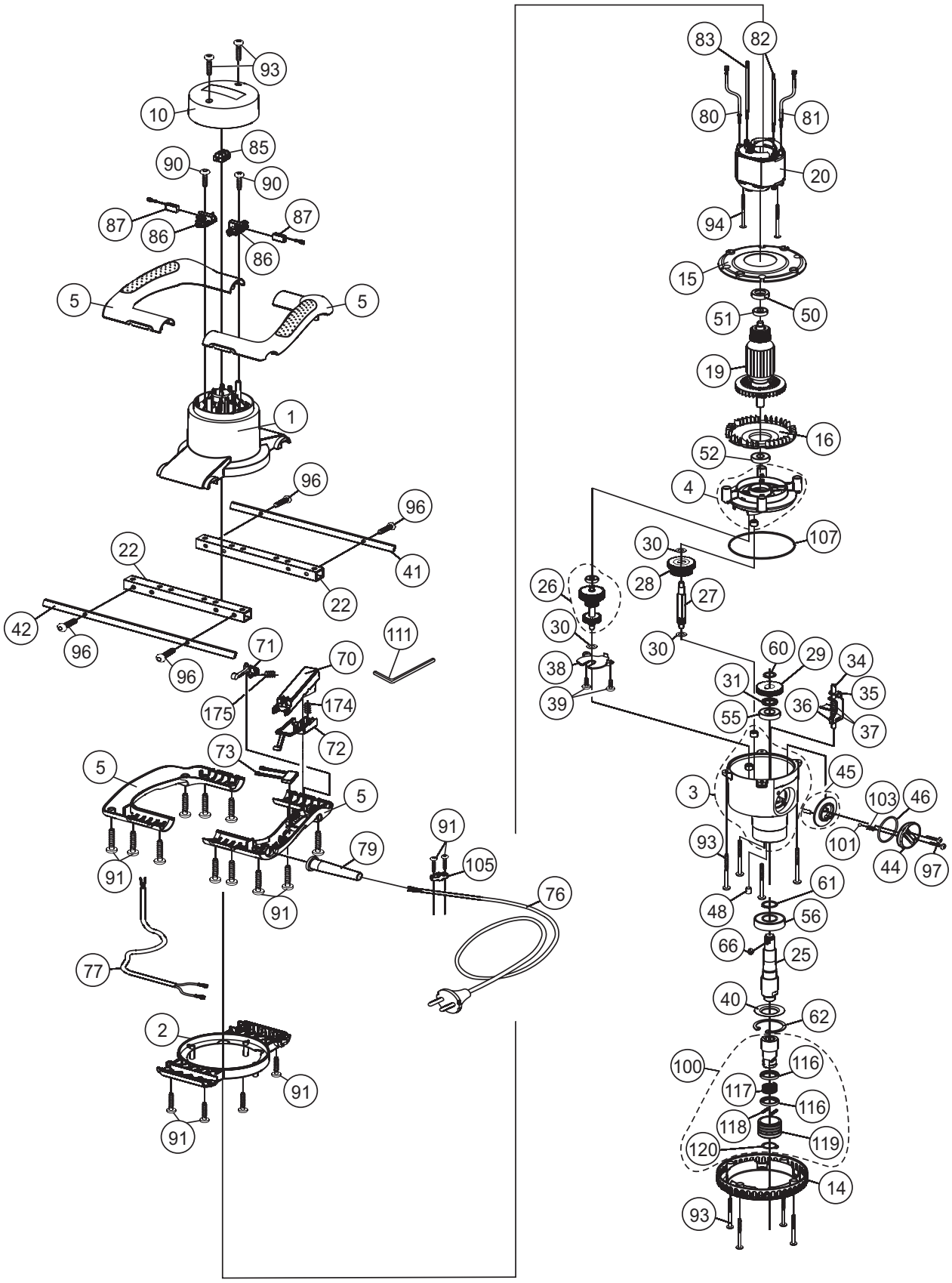
MIXER ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS
1	CM20532	MOTOR HOUSING TOP	1	
2	CM20533	MOTOR HOUSING BOTTOM	1	
3	CM20705	GEAR HOUSING ASSY	1	
4	CM20554	PLATE ASSY	1	
5	CM20646	RIGHT AND LEFT HANDLE ASSY	1	
10	CM20602	COVER	1	
14	CM20536	AIR OUTLET	1	
15	CM20535	BAFFLE PLATE	1	
16	CM20529	RECTIFIER	1	
19	CM20589	ARMATURE 230V	1	CX600HFE ONLY
19	CM20599	ARMATURE 110V	1	CX600HF ONLY
20	CM20590	FIELD COIL 230V	1	CX600HFE ONLY
20	CM20600	FIELD COIL 110V	1	CX600HF ONLY
22	CM20516	CARRIER	1	
25	CM20711	SPINDLE	1	
26	CM20710	MIDDLE SHAFT	1	
27	CM20504	MIDDLE SHAFT	1	
28	CM20704	GEAR ASSY	1	
29	CM20501	GEAR	1	
30	CM20518	WASHER	3	
31	CM20506	SLEEVE	1	
34	CM28543	GUIDE	1	
35	CM20511	FORK	1	
36	CM20660	SLIDING PLUG	1	
37	CM20508	SPRING FOR GEAR SHIFTER	1	
38	CM20608	COVER	1	
39	CM20609	SCREW 4X12	2	
40	CM20513	WASHER	1	
41	CM20687	FRAME PROTECTION FRONT	1	
42	CM20686	FRAME PROTECTION REAR	1	
44	CM20528	GEAR KNOB	1	
45	CM20562	KNOB ASSY	1	
46	CM20581	SEALING	1	
48	CM25022	SLEEVE	1	
50	CM25053	RUBBER SLEEVE	1	
60	CM25053	RUBBER SLEEVE	1	
51	CM29544	BALL BEARING 608 2RS	1	
52	CM23519	BALL BEARING 6001 ZZ	1	
55	CM23507	BALL BEARING 6002 2RS	1	
56	CM26016	BALL BEARING 6204 2RS	1	

MIXER ASSY.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CX600 HAND MIXER — MIXER ASSEMBLY (CONTINUED)

MIXER ASSY.

NO	PART NO	PART NAME	QTY.	REMARKS
60	CM24060	CIRCLIP A15 X1,5	1	
61	CM20571	CIRCLIP 20	1	
62	CM20572	CIRCLIP 47	1	
66	CM28548	PIN 5X5X10	1	
70	CM20580	SWITCH 230V	1	CX600HFE ONLY
70	CM20597	SWITCH 110V	1	CX600HF ONLY
71	CM20649	KNOB SWITCH	1	
72	CM20650	LEVER	1	
73	CM20568	SUPPRESSOR	1	
76	CM23557	MAIN CABLE 230 V WITH EU PLUG	1	CX600HFE ONLY
76	CM27030	MAIN CABLE 230 V WITH CH PLUG	1	CX600HFE ONLY
76	CM27053	MAIN CABLE 230 V WITH UK PLUG	1	CX600HFE ONLY
76	CM27035	MAIN CABLE 110 V WITH UK PLUG	1	CX600HF ONLY
76	CM27054	MAIN CABLE 110 V WITH USA PLUG	1	CX600HF ONLY
77	CM20564	CABLE	1	
79	CM20520	CORD GUARD	1	
80	CM20586	WIRE BLUE	1	
81	CM20586	WIRE BLUE	1	
82	CM20587	WIRE	1	
83	CM20587	WIRE	1	
85	CM20579	TERMINAL BLOCK	1	
86	CM20569	BRUSH HOLDER	2	
87	CM20566	BRUSH SET	2	
90	CM25062	SCREW 4 X 15	2	
91	CM25049	SCREW 4 X 16	18	
93	CM29563	SCREW 4X45/20	10	
94	CM25031	SCREW 4X70/30	1	
96	CM20575	SCREW M6X20	4	
97	CM20577	SCREW 30X12	1	
100	CM20666	HEXAFIX RIGHT - II	1	..... INCLUDES ITEMS W/ #
101	CM20578	BALL 5 MM	1	
103	CM20507	SPRING FOR GEAR SWITCH	1	
105	CM20521	CORD CLAMP	1	
107	CM29564	SEALING	1	
116#	CM20667	RING HEXAFIX	2	
117#	CM20668	SPRING FOR HEXAFIX	1	
118#	CM20669	PIN FOR HEXAFIX	1	
119#	CM20670	SLEEVE HEXAFIX	1	
120#	CM20571	CIRCLIP 20	1	
174	CM20510	SPRING	1	
175	CM20607	SPRING	1	

TERMS AND CONDITIONS OF SALE — PARTS

PAYMENT TERMS

Terms of payment for parts are net 30 days.

FREIGHT POLICY

All parts orders will be shipped collect or prepaid with the charges added to the invoice. All shipments are F.O.B. point of origin. Multiquip's responsibility ceases when a signed manifest has been obtained from the carrier, and any claim for shortage or damage must be settled between the consignee and the carrier.

MINIMUM ORDER

The minimum charge for orders from Multiquip is $15.00 net. Customers will be asked for instructions regarding handling of orders not meeting this requirement.

RETURNED GOODS POLICY

Return shipments will be accepted and credit will be allowed, subject to the following provisions:

1. A Returned Material Authorization must be approved by Multiquip prior to shipment.
2. To obtain a Return Material Authorization, a list must be provided to Multiquip Parts Sales that defines item numbers, quantities, and descriptions of the items to be returned.
    a. The parts numbers and descriptions must match the current parts price list.
    b. The list must be typed or computer generated.
    c. The list must state the reason(s) for the return.
    d. The list must reference the sales order(s) or invoice(s) under which the items were originally purchased.
    e. The list must include the name and phone number of the person requesting the RMA.
3. A copy of the Return Material Authorization must accompany the return shipment.
4. Freight is at the sender's expense. All parts must be returned freight prepaid to Multiquip's designated receiving point.
5. Parts must be in new and resalable condition, in the original Multiquip package (if any), and with Multiquip part numbers clearly marked.
6. The following items are not returnable:
    a. Obsolete parts. (If an item is in the price book and shows as being replaced by another item, it is obsolete.)
    b. Any parts with a limited shelf life (such as gaskets, seals, "O" rings, and other rubber parts) that were purchased more than six months prior to the return date.
    c. Any line item with an extended dealer net price of less than $5.00.
    d. Special order items.
    e. Electrical components.
    f. Paint, chemicals, and lubricants.
    g. Decals and paper products.
    h. Items purchased in kits.
7. The sender will be notified of any material received that is not acceptable.
8. Such material will be held for five working days from notification, pending instructions. If a reply is not received within five days, the material will be returned to the sender at his expense.
9. Credit on returned parts will be issued at dealer net price at time of the original purchase, less a 15% restocking charge.
10. In cases where an item is accepted, for which the original purchase document can not be determined, the price will be based on the list price that was effective twelve months prior to the RMA date.
11. Credit issued will be applied to future purchases only.

PRICING AND REBATES

Prices are subject to change without prior notice. Price changes are effective on a specific date and all orders received on or after that date will be billed at the revised price. Rebates for price declines and added charges for price increases will not be made for stock on hand at the time of any price change.

Multiquip reserves the right to quote and sell direct to Government agencies, and to Original Equipment Manufacturer accounts who use our products as integral parts of their own products.

SPECIAL EXPEDITING SERVICE

A $35.00 surcharge will be added to the invoice for special handling including bus shipments, insured parcel post or in cases where Multiquip must personally deliver the parts to the carrier.

LIMITATIONS OF SELLER'S LIABILITY

Multiquip shall not be liable hereunder for damages in excess of the purchase price of the item with respect to which damages are claimed, and in no event shall Multiquip be liable for loss of profit or good will or for any other special, consequential or incidental damages.

LIMITATION OF WARRANTIES

No warranties, express or implied, are made in connection with the sale of parts or trade accessories nor as to any engine not manufactured by Multiquip. Such warranties made in connection with the sale of new, complete units are made exclusively by a statement of warranty packaged with such units, and Multiquip neither assumes nor authorizes any person to assume for it any other obligation or liability whatever in connection with the sale of its products. Apart from such written statement of warranty, there are no warranties, express, implied or statutory, which extend beyond the description of the products on the face hereof.

NOTE PAGE

OPERATION AND PARTS MANUAL

HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL NUMBER *ON-HAND* WHEN CALLING

PARTS DEPARTMENT

800-427-1244 FAX: 800-672-7877
310-537-3700 FAX: 310-637-3284

SERVICE DEPARTMENT

800-478-1244 FAX: 310-537-4259
310-537-3700

TECHNICAL ASSISTANCE

800-478-1244 FAX: 310-631-5032

WARRANTY DEPARTMENT

800-421-1244, EXT. 279 FAX: 310-537-1173
310-537-3700, EXT. 279

SALES DEPARTMENT

310-661-4242 FAX: 310-604-9237
877-289-7869 (877-BUY-STOW)

STOW
A DIVISION OF MULTIQUIP INC.

STOW CONSTRUCTION EQUIPMENT
A DIVISION OF MULTIQUIP INC.
POST OFFICE BOX 6254
CARSON, CA 90749
310-537-3700 • 888-252-STOW [888-252-7869]
FAX: 310-537-1986 • FAX: 800-556-1986
E-MAIL: STOW@multiquip.com • WWW: stowmfg.com

PARTS DEPARTMENT:
800-427-1244
FAX: 800-672-7877
SERVICE DEPARTMENT/TECHNICAL ASSISTANCE:
800-478-1244
FAX: 310-631-5032